

## STATEMENT OF WORK

### TELEMETRY SIMULATION ASSEMBLY II

#### PERIOD OF PERFORMANCE

The period of performance is September 16, 1996 through June 22, 1997.

#### BACKGROUND

The Telemetry Simulation Assembly II (TSA II) is being developed in phases; phase 1a, phase 1b, phase 1.5, and phase 2. The deliverables for this Contract Work Order (CWO), as defined below, are for phase 2.

Demonstrations shall be provided at key points of the development process, as mutually agreed upon between JPL and the contractor.

Configuration control of the developed software shall be performed on a weekly (or more frequent) basis. Development level configuration management shall be maintained using SCCS. All software developed for the TSA II shall be delivered to the JPL software CDE.

#### EXPERIENCE REQUIRED

Personnel assigned to complete the deliverables listed below must have the following qualifications, or equivalent training must be provided prior to assignment.

- a) Experience with SUN Solaris operating system, specifically on the 486 PC as well as the SUN Sparc Stations.
- b) Knowledge in the application and use of the Multi-Use Software Program.
- c) Broad knowledge of telemetry signal processing as performed within the Deep Space Network.

#### DELIVERABLES

- a) Complete the Software Operators Manual (SOM).
- b) Complete the TSAK application software for phase 2.
- c) Complete the TSAC application software for phase 2.
- d) Complete the TSAC custom card driver for phase 2.

- e) Provide support for the integration and test of the TSA II.
- f) Provide support for the development of the Software Test Plan (STP) and Acceptance Test Plan (ATP).
- g) Provide support for the development of the Software Specification Design Document, Volumes 1 and 2.
- h) Provide a level 3 diagnostic program for the TSA II custom cards.
- I) Provide anomaly corrections to the TSA II software on an as required basis.

#### CHARGE ACCOUNT

412-27409-0-3940

#### STAFFING

- a) Youbin Mao
- b) Ron Holden
- c) Shyan-Wee Jao

#### LEVEL OF EFFORT

The level of effort (for the defined work period) is as follows:

- |    |               |     |
|----|---------------|-----|
| a) | Youbin Mao    | 1.0 |
| b) | Ron Holden    | 0.5 |
| c) | Shyan-Wee Jao | 0.2 |